

FIG. 1A
"DAY IN THE LIFE" DIAGRAM

PPAP Parts Submission Warrant Current Process

PRIOR ART

OEM

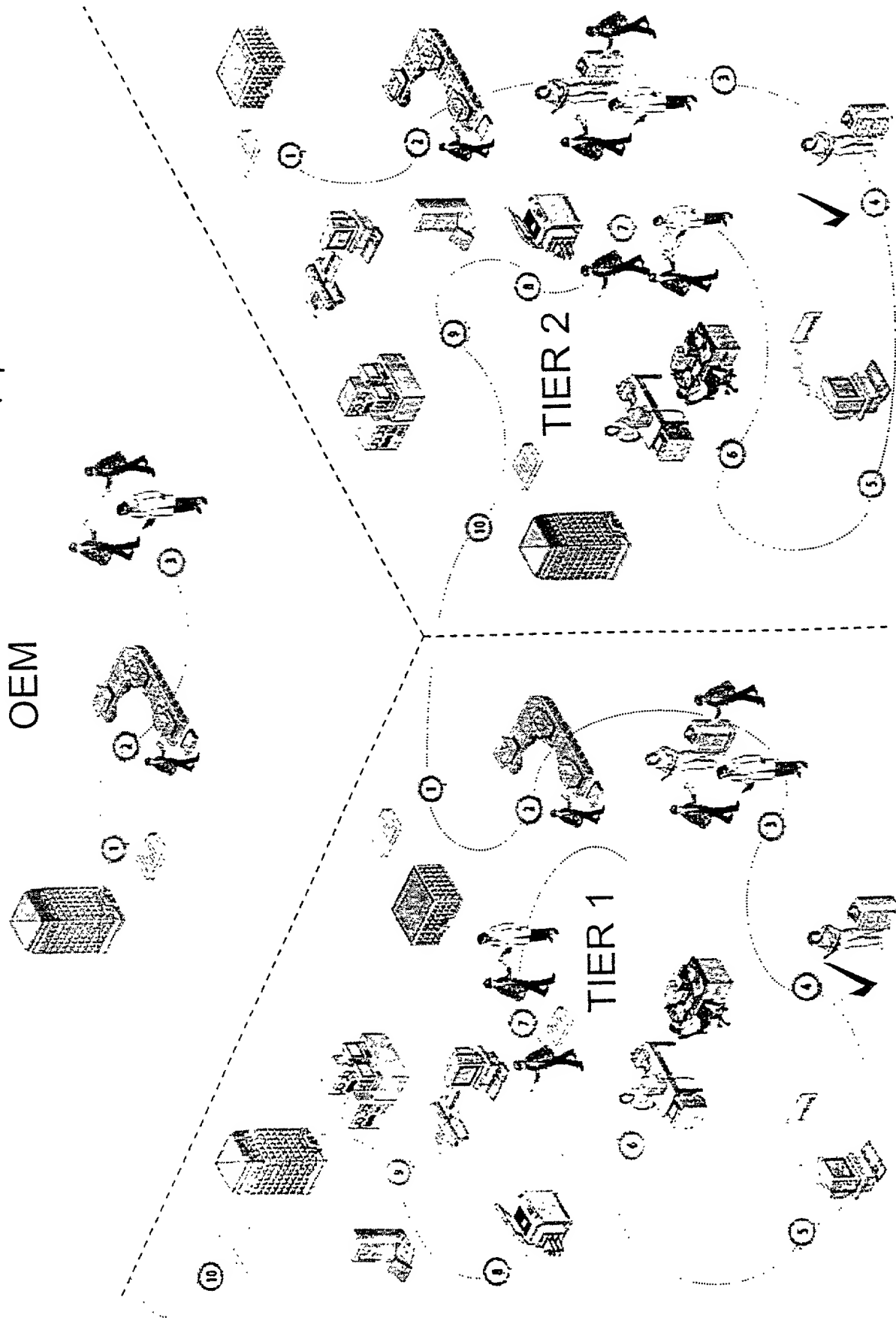


FIG. 1A

PRIOR ART

PPAP Parts Submission Warrant Current Process

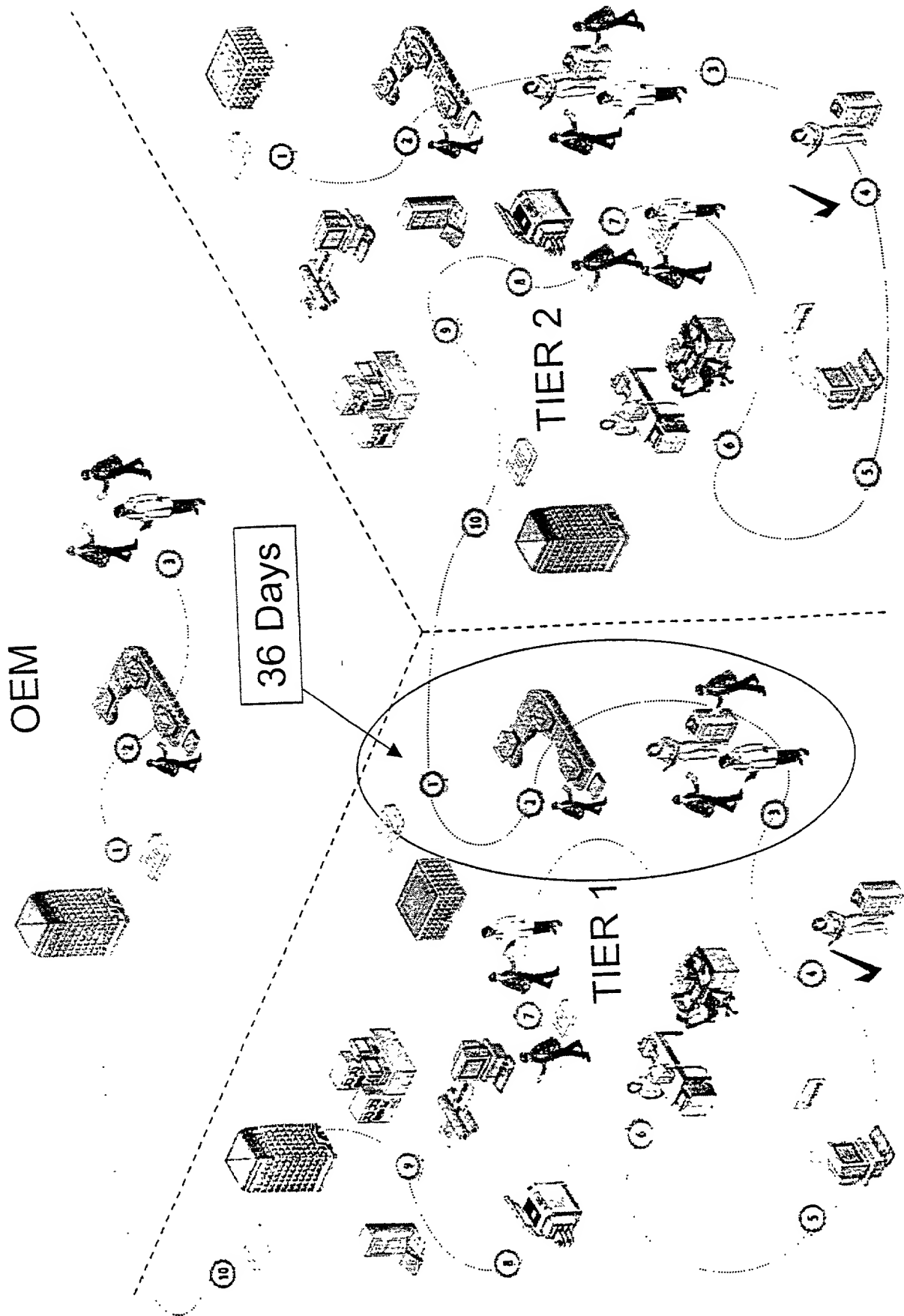


FIG. 1B

PRIOR ART

FIG. 1C

PPAP Parts Submission Warrant Current Process

OEM

Key:

☐ - value added

☒ - non-value added

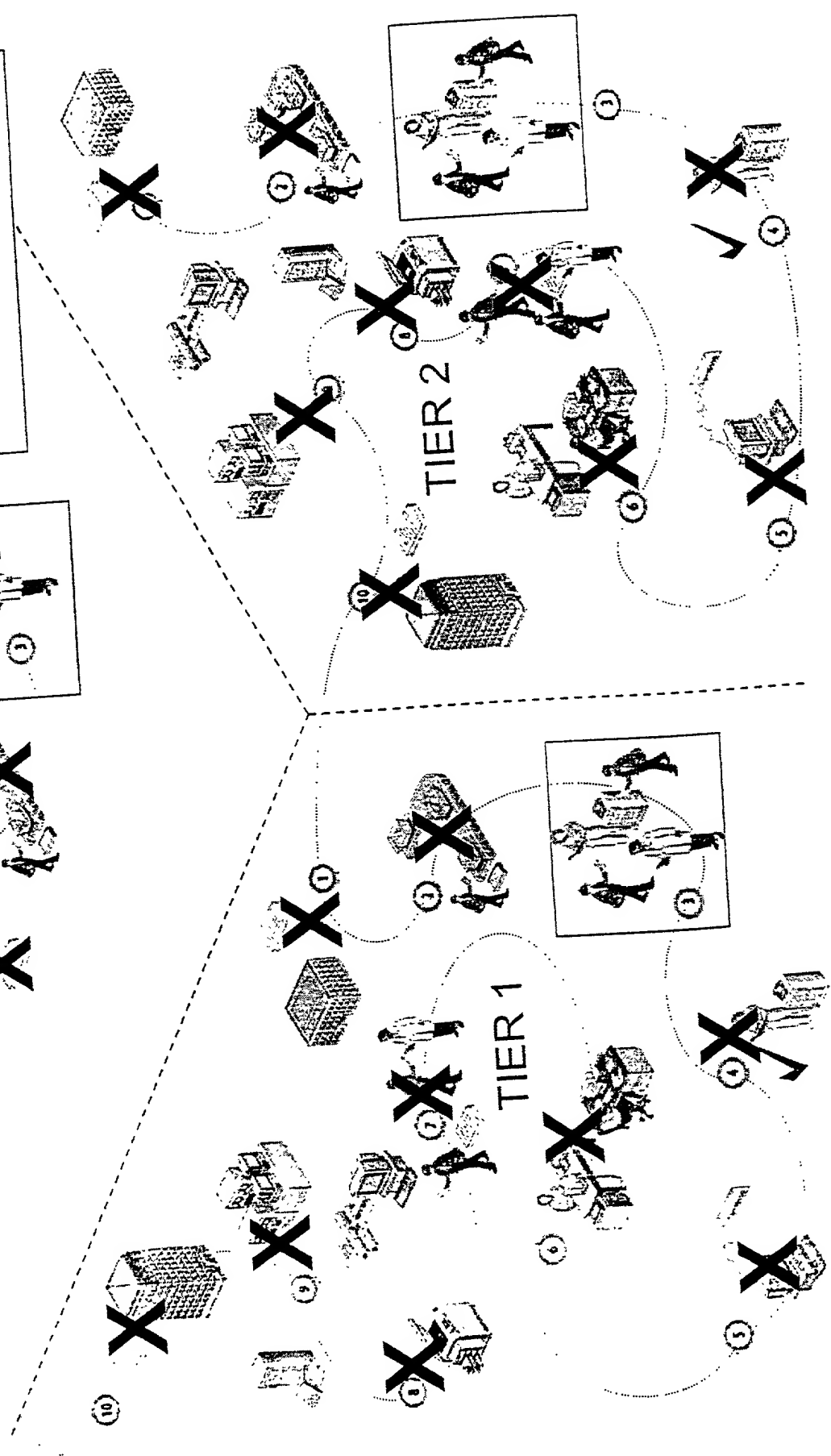


FIG. 1C

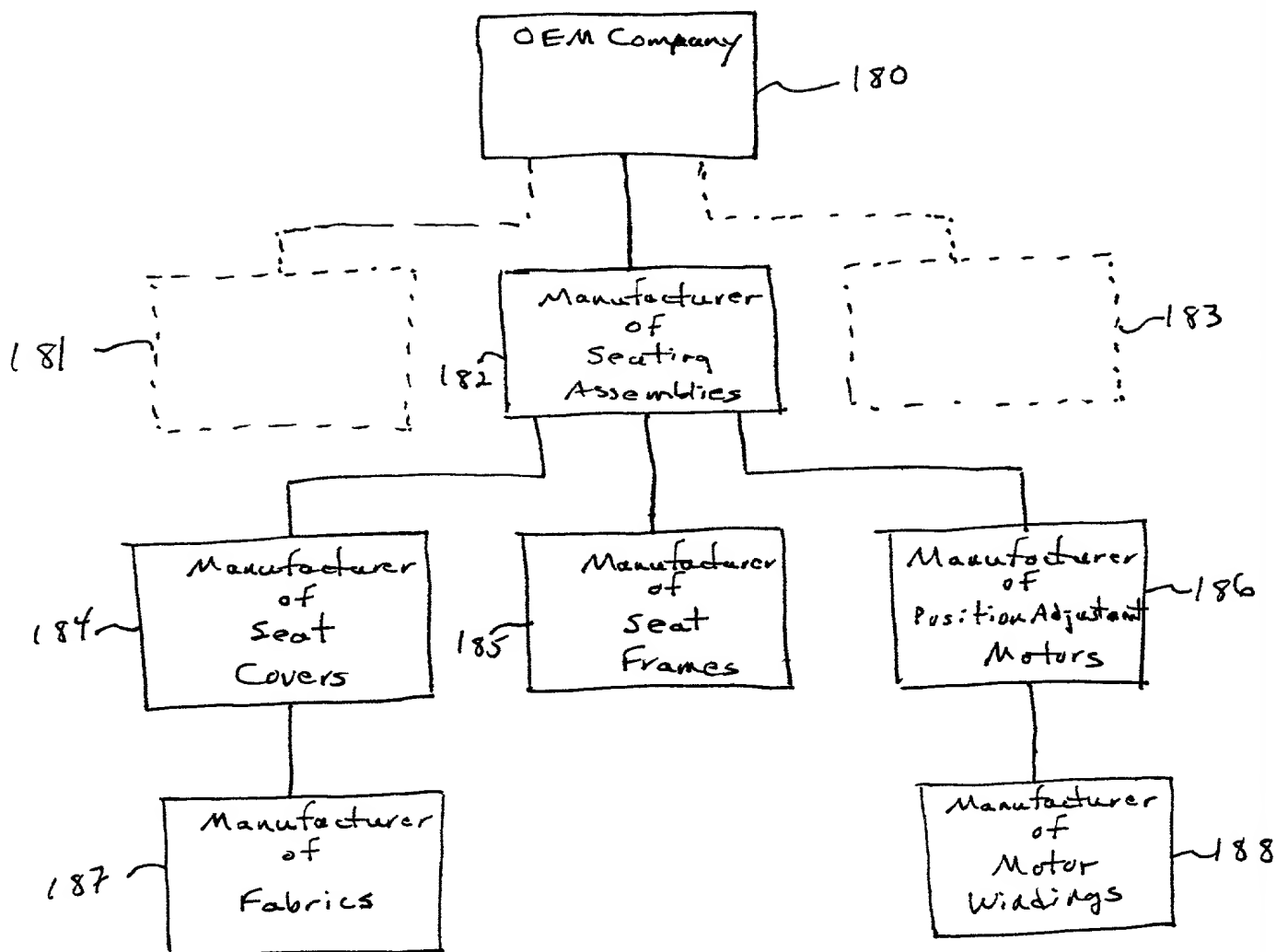
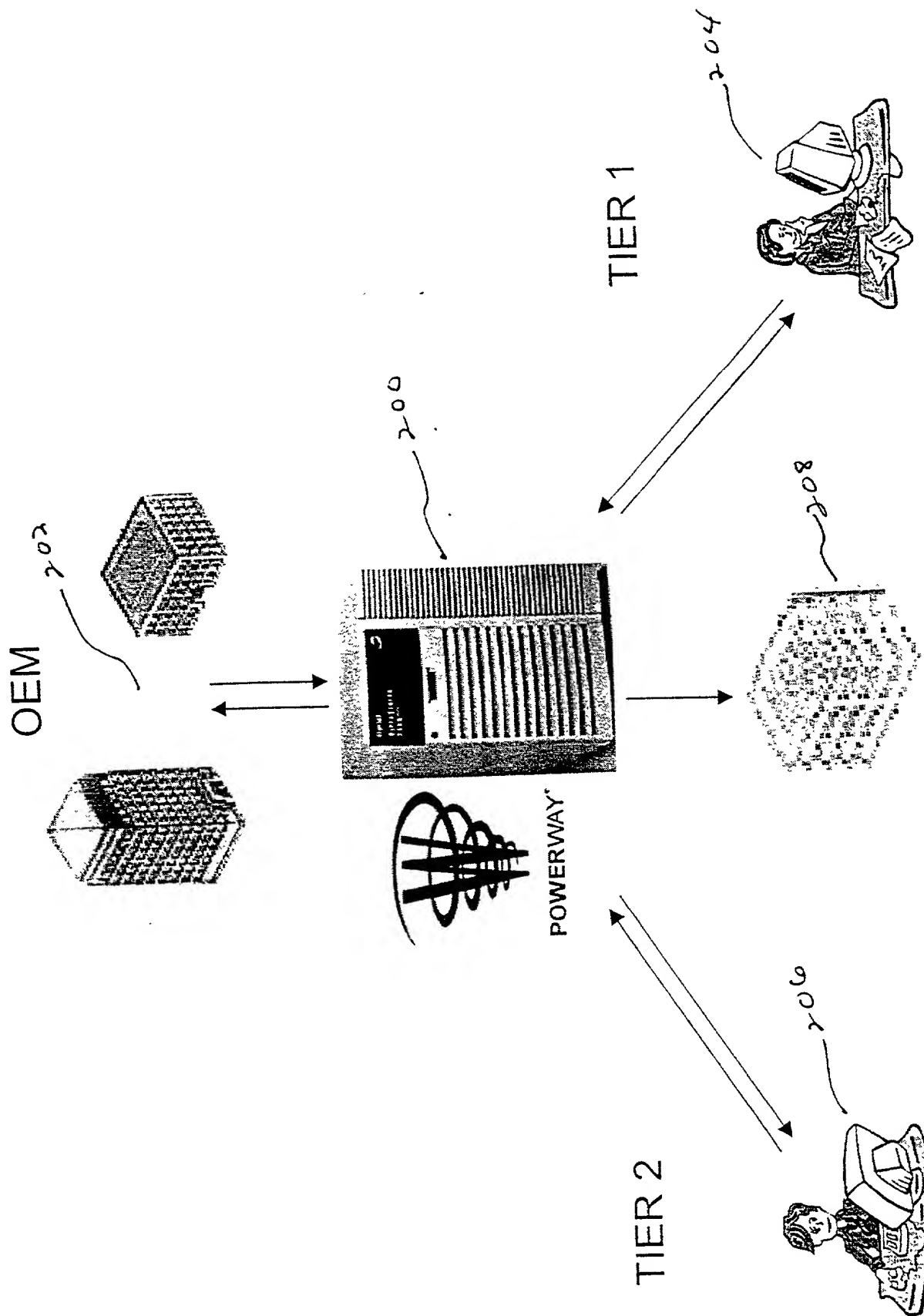


FIG. 2

Parts Submission Warrant Future To-Be Process using Powerway.com



Parts Submission Warrant Future Opportunities

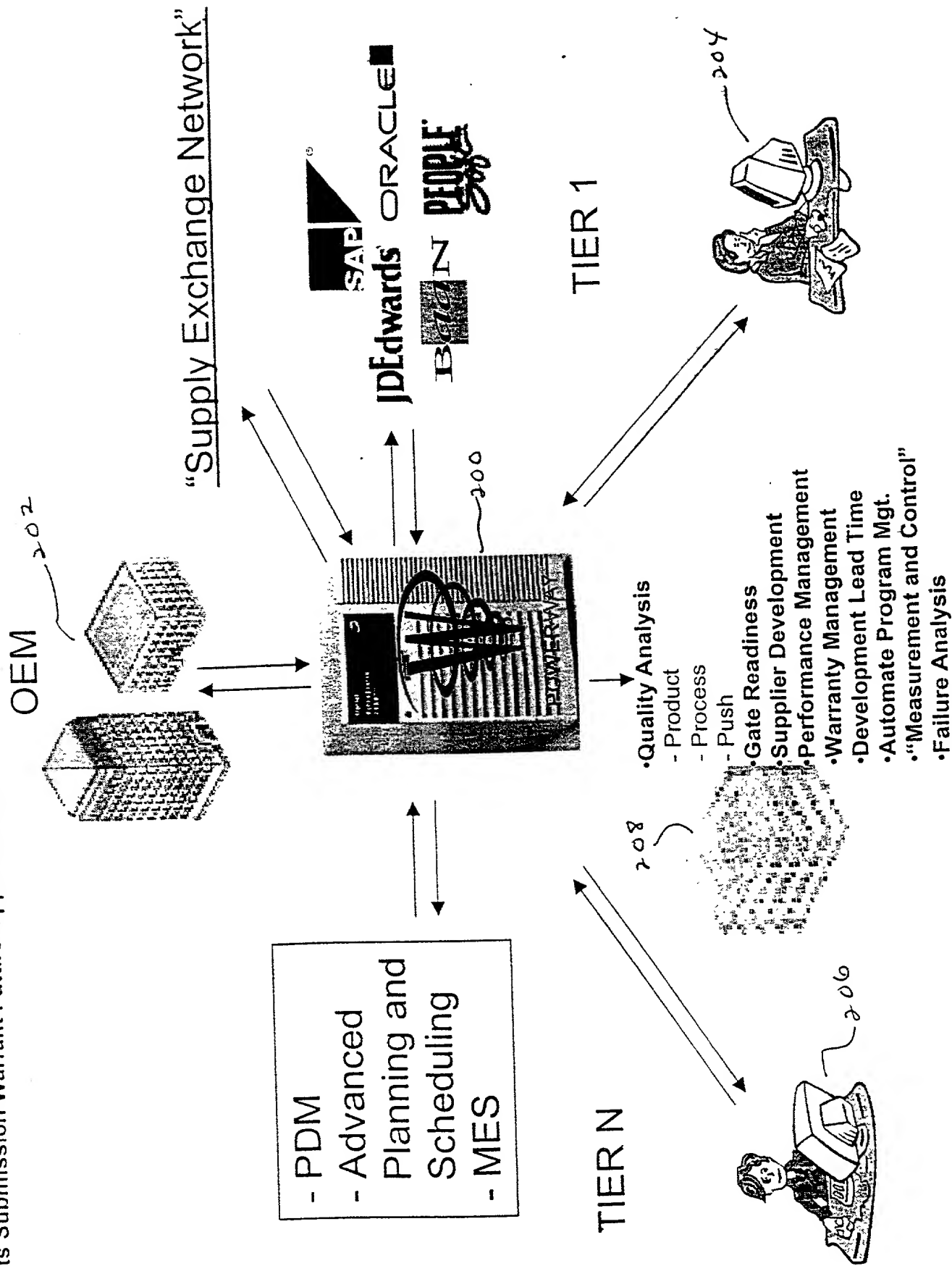


FIG. 3B

Powerway.com Hardware Architecture

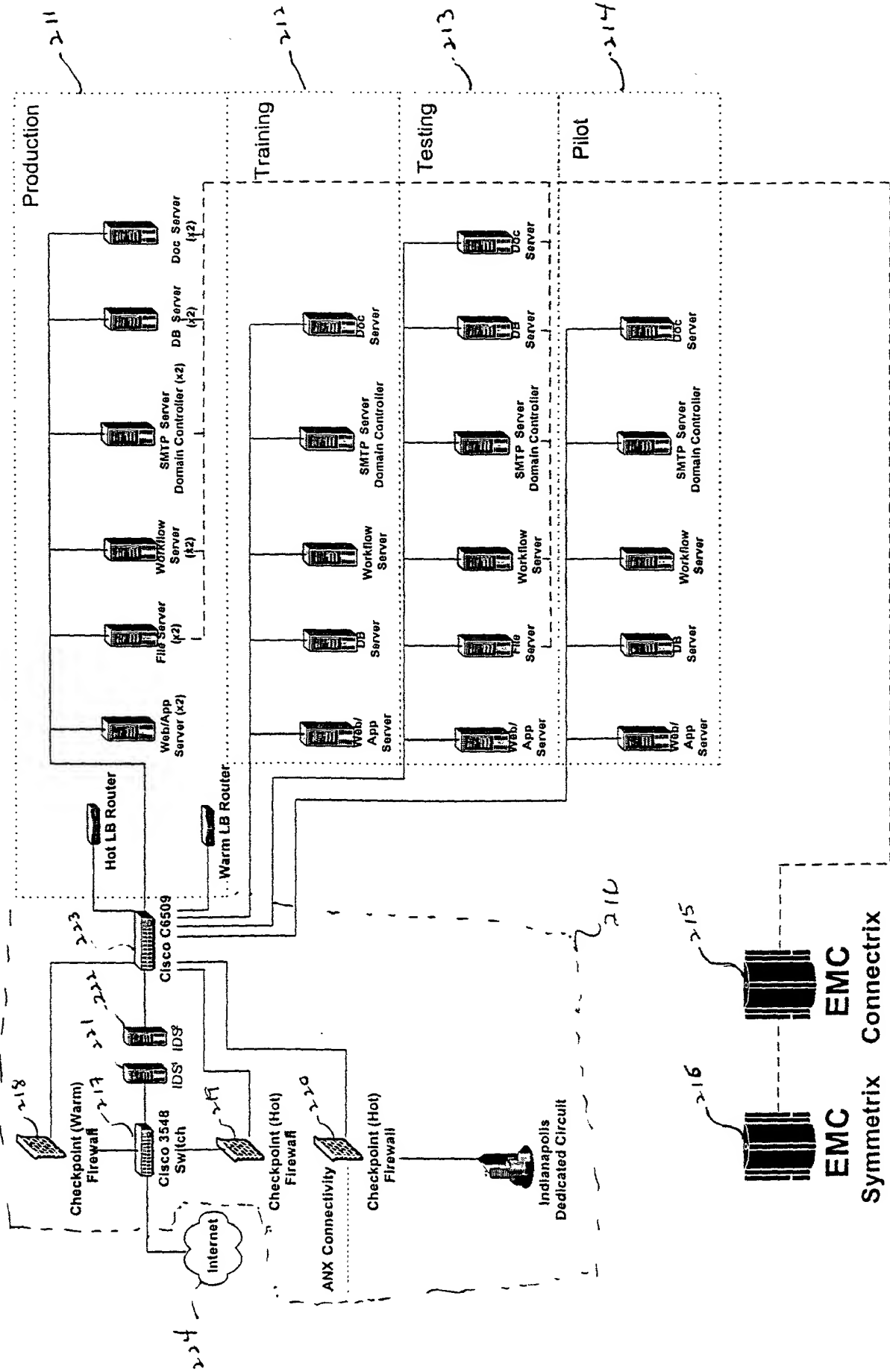
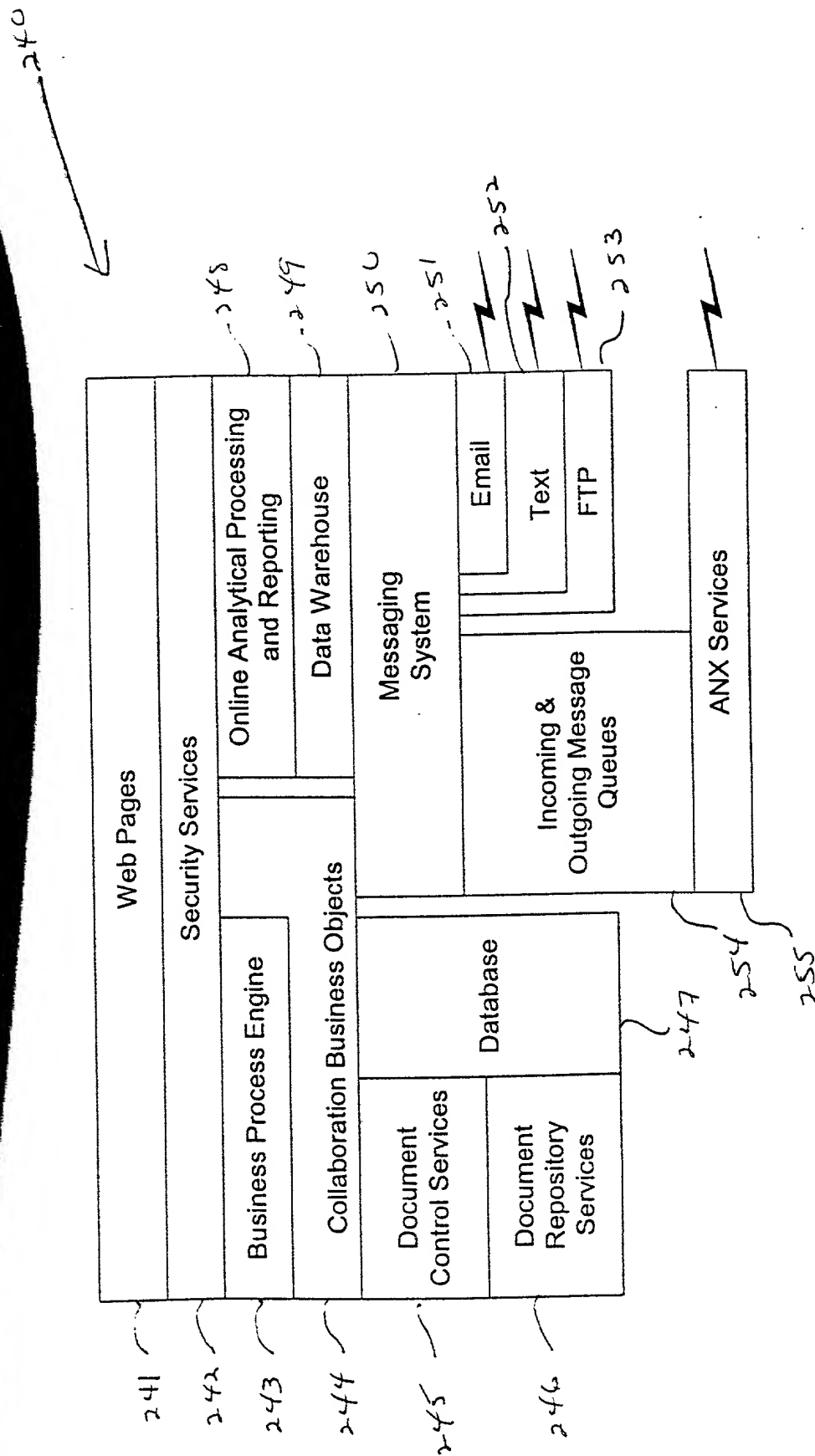


FIG. 4



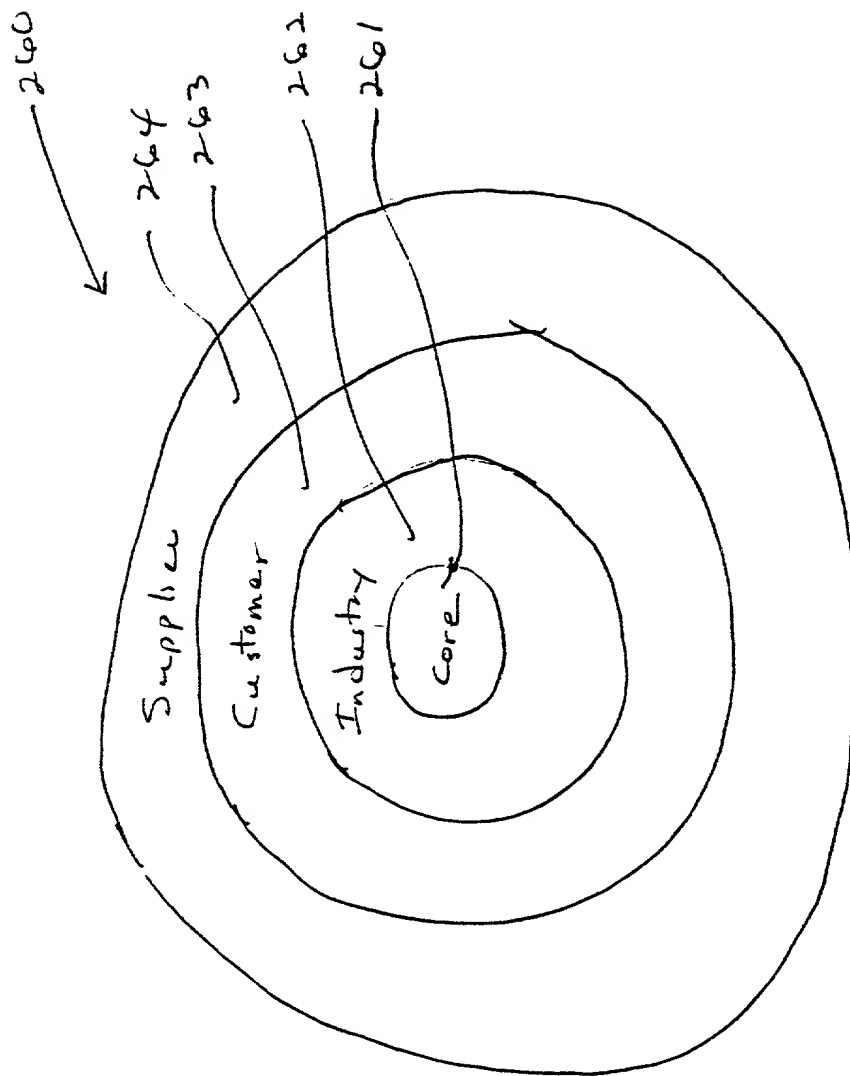


FIG. 6

Powerway.com Tenant and Project Model

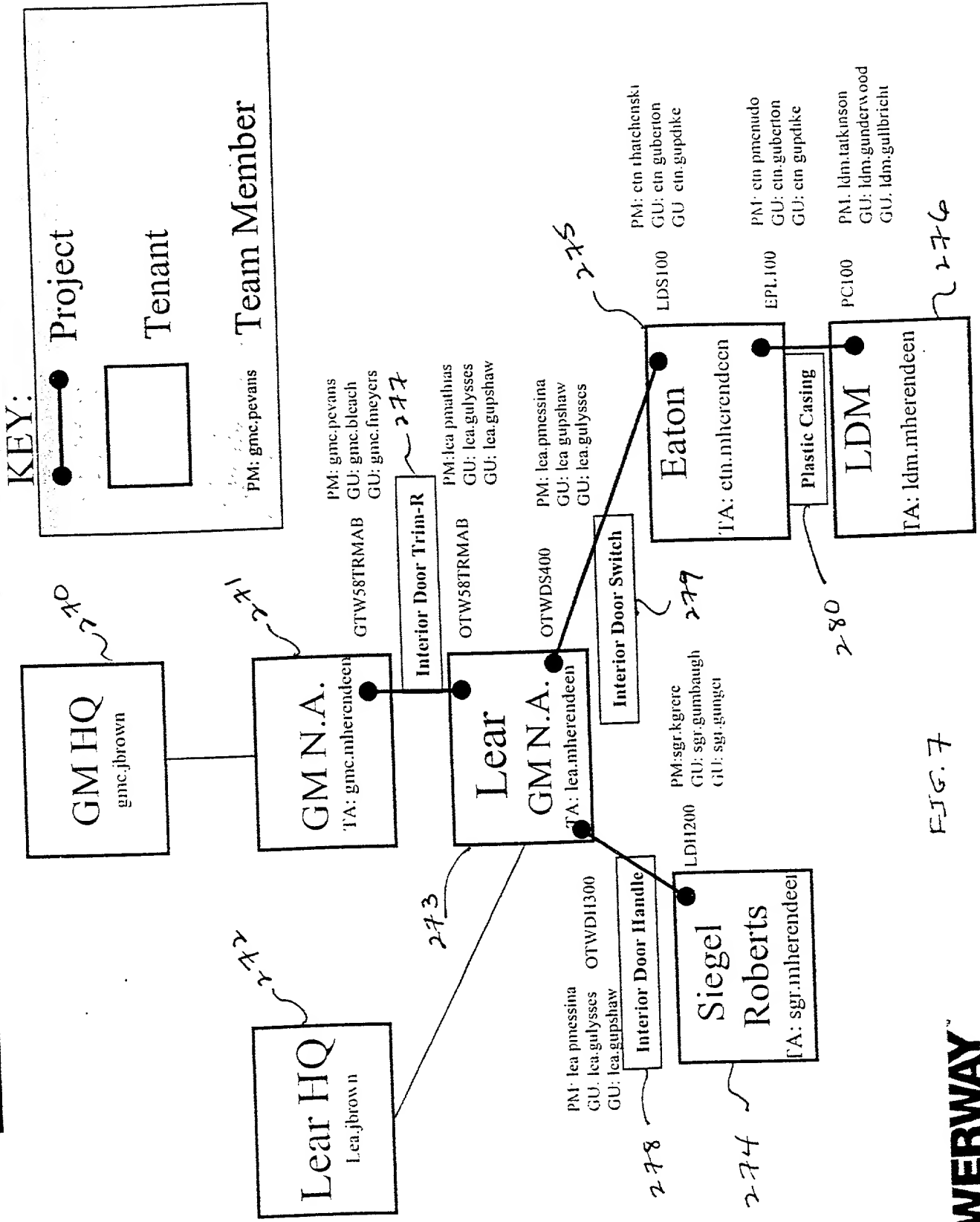


FIG. 7

Cross-Functional & Cross-Enterprise

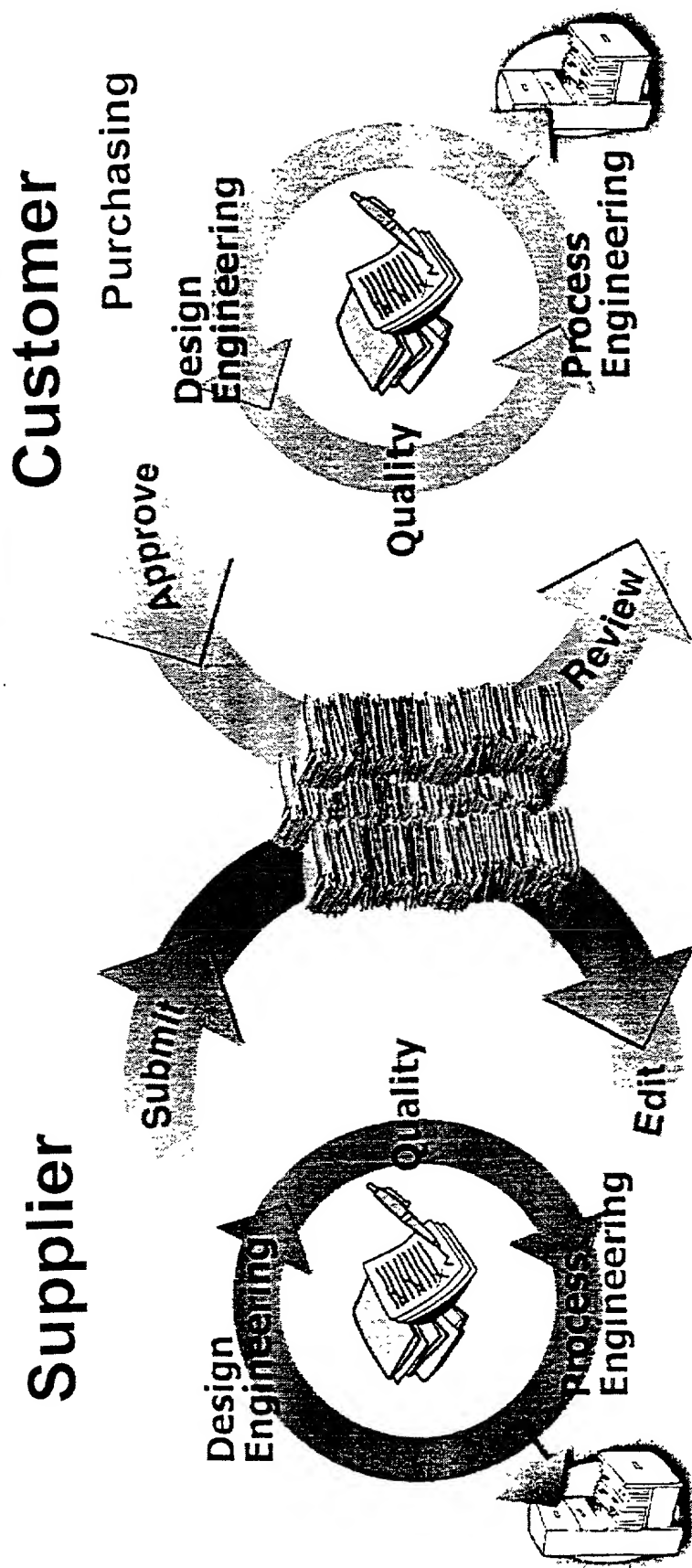


FIG. 8

Welcome to Powerway.com - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Size Print Yahoo! Mes...

Address http://www.powerway.com

POWERWAY

.com Where the supply chain clicks.

User name:

Password:

Log On

Forgot your password?

Terms of service

Powerway, Inc.
6919 Hillside Court
Indianapolis, IN 46250

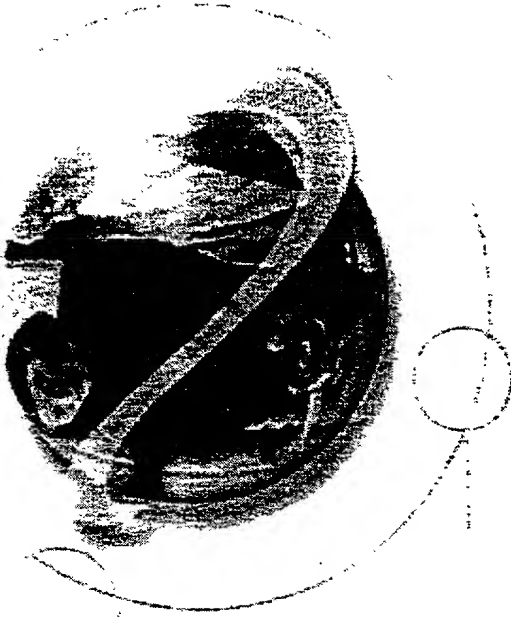
About Powerway.com

Welcome to Powerway.com, the new Internet Workplace that's transforming supply chain performance through synchronized processes and enhanced communication.

About Powerway, Inc.

Powerway's expertise in helping companies create, manage, and distribute business critical documents throughout their enterprise has made them a leading provider of e-business management systems worldwide.

To learn more, visit www.powerwayinc.com or call 800-964-9004.



300

FIG. 9

Methodologies - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Print Yahoo! Mes...

Address http://www.powerway.com/users/HomePage.asp

POWERWAY
Kyle Jones
Powerway - R&D
December 20, 2000

My Powerway.com

318 → 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

Recently updated Methodologies

Methodology name	Revision number	Status	Effective date
There are currently no methodologies.			

Tasks

Subject
You have no open tasks.

Resources

- Getting Started - Tips on getting started, navigating the site, browser requirements and more.
- FAQs - Frequently asked questions about how to work efficiently in Powerway.com.
- Glossary - Terms you may encounter in the course of your work at Powerway.com.
- Ask An Expert - An online forum featuring answers from authorities in the automotive supply chain.
- Industry Links - A comprehensive list of links for the automotive supply chain.
- Customer Service - How to get technical support for Powerway.com.

Notifications

Subject
You have no notifications.

310

Fig. 11

318

319 320 321 323 324 325 326 327 328 329

Part Information

Part: PLT13HVAC2004

Part number: PLT13HVAC2004

Part name: HVAC for 2004 #13 Platform

Part description: HVAC

ECN: A

Revision number: 1

Unit weight: 11

Author: Fran Meyers

352

353

356

357

358

359

350

Patricia Evans
General Motors North America
February 26, 2001

POWERWAY .com

Shipping Parts Product Information Support Your Mail Center

Part Info History Components

Part: PLT13HVAC2004

Part Info

History

Components

Part: PLT13HVAC2004

Part number: PLT13HVAC2004

Part name: HVAC for 2004 #13 Platform

Part description: HVAC

ECN: A

Revision number: 1

Unit weight: 11

Author: Fran Meyers

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com are trademarks of Powerway, Inc. and its affiliates in the US and other jurisdictions.

PatInfo - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address https://pilot.powerway.com/parts/pat_PatInfo.asp

Done

Start Microsoft P State 2000 RE.com Powerway Microsoft Powerway PatInfo

9:47 AM

FIG. 12

ProjectList - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address https://pilot.powerway.com/projects/pil_ProjectList.asp

Powerway.com
Patricia Evans
General Motors North America
February 26, 2001

ProjectList

318 319 320 321 323 324 325 326 327 328 329

Project List

All Open Pending Cancelled

[Create new project]

Project Title

Status	Customer Name	Customer Part Number	Supplier Name	Supplier Part Number
Cancelled	General Motors North America	4764604AA	ArvinMeritor	0990982-0030
Open	General Motors North America	4764604AA	ArvinMeritor	0990982-0030
Pending	General Motors North America	659033ch	Siegel Roberts	LDH1527
Open	General Motors North America	GM - 30813.exh	ArvinMeritor	64663TX55TRM
Pending	General Motors North America		Siegel Roberts	LDH201
Pending	General Motors North America	PLT13HVAC2004	Delphi Delco Electronics	MY04 GMT888
Pending	General Motors North America	HVAC100-909	Delphi Delco Electronics	HVAC Controls
Open	General Motors North America	GTW58TRMAB	Textron	OTW58TRMAB
Open	General Motors North America	4764604AA	ArvinMeritor	0990982-0030
Open	General Motors North America	PC1527QXX	LDM Corporation	PC1527
Open	General Motors North America	PC1528QXX	LDM Corporation	PC1528
Open	General Motors North America	HVAC100-909	Delphi Delco Electronics	MY04 GMT888
Cancelled	General Motors North America	HVAC100-909	CJ Automotive	PLT12-HVAC2004

366 367 362

Project Title

CA 8-D for M&P Assembly

Chrome handle - mating part PC1527

Exhaust Manifold

Gen2 LDH200 Door Handle

HVAC for 2004 #13 Platform

HVAC for the 2004 Minivan

Interior Door Trim

M & P Assembly

Plastic Facia '03 CS Platform

Plastic Mounting Harness - PC1527

QUOTE - HVAC for the 2004 Minivan

Quote - PLT12HVAC2004

366

360

Internet

ProjectList

Microsoft E

Powerway

Inbox - Mo

Outbox - Mo

RE: com

Site 2000

Microsoft P

Internet Explorer

Quick Gates/mth Methodology List.asp

8:48 AM

FIG. 13

ProjectInfo - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address <https://pilot.powerway.com/projects/pil/ProjectInfo.asp>

POWERWAY
Patricia Evans
General Motors North America
February 26, 2001

Home Page Projects **Projects** Reports Engineering Design Support

318 — 319 320 321 323 324 325 326 327 328 329

Project Information

Project: M & P Assembly [Cancel] [Edit]

Project number: 242

Project title: M & P Assembly

Project status: Open

Project risk: High

Project description: M and P Assembly

Supplier name: ArvinMeritor

Supplier part number: 0990982-0030 [history](#)

Supplier project manager: Jim Bowman

Customer MRD: 4/30/2003

Customer name: General Motors North America

Customer part number: [4764504AA history](#)

Customer project manager: Patricia Evans

Design responsible: Supplier

Methodology template: GM N.A. Standard Methodology

©2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com are trademarks of Powerway, Inc. and its affiliates in the US and other jurisdictions.

Start Microsoft P Site 2000 IE.com Powerway Index Mic PowerWay Microsoft Internet

370 371 372 373 374 375 376 377 378 379 380 381 382

Projects
Project Info
Quality Gates
Documents
Team List
Sub-projects
Planned Visits
Tasks
Meetings
Bulletin Board
Security

FIG. 14

ProjectInfo - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Hist

Address http://www.powerway.com/projects/prj_ProjectInfo.asp

POWERWAY .com

Lori Flaminio
Powerway - Marketing
December 20, 2000

Search Projects

Home Projects Methodologies Reports Message Center

319 → Projects

371 → Project Info

- 373 ✓ Quality Gates
- 374 ✓ Documents
- 375 ✓ Team List
- 376 ✓ Sub-projects
- 377 ✓ Planned Visits
- 378 ✓ Tasks
- 379 ✓ Meetings
- 380 ✓ Bulletin Board
- 381 ✓ Security
- 382 ✓

Project Information

Project: SCS Powerway.com

[Cancel] [Edit]

Project number: 40

Project title: SCS

Project status: Oper

Project risk: Medi

Project description: SCS

Supplier name: Powe

Supplier part number: Doto

Supplier project manager: Rebe

Customer MRD: 2/1/2

Customer name: Powe

Customer part number: Doto

Customer project manager: Lori f

Design responsible: Custr

Methodology template: Powe

© 2000 Powerway, Inc. All rights reserved. Powerway and Pow and its affiliates in the US and other jurisdictions.

383 ✓

Project

On the about a informa to re-op can clic Quality Meetin those a part nu informa part.

See all Adding projec Viewir Editinc Re-ope Cance Viewir a proje Viewir Viewir Viewir Adding Adding Remov

FIG. 15



lavpane | Sync:TOC |

Project Information

Project Information page, you see detailed information about a part that you have selected. Click **Edit** to edit the part information. Click **Cancel** to cancel a project. Click **Re-open** to open a cancelled project. In the side navigation bar, you click **Projects** to return to the list of all projects. Also click **Gates**, **Documents**, **Team List**, **Sub-projects**, **Tasks**, **Bulletin Board**, or **Security** to view or edit items in these areas. In the project information fields, click the supplier member or customer part number to see detailed information about the part. Click **History** to view a history of the

so

- [documents in a quality gate \(while inside a project\)](#)
- [view project details](#)
- [cancel a project](#)
- [re-opening a project](#)
- [canceling a project](#)
- [view part revision history as a customer or supplier of a project](#)
- [view details of a component part](#)
- [view the subprojects list](#)
- [view the details of a subproject](#)
- [view a team member list](#)
- [view a team member by role](#)
- [view a team member by user](#)
- [remove a team member](#)

Programs



ProjectViewGates - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address <https://pilot.powerway.com/qualityGates/pi/ProjectViewGates.asp>

POWERWAY
Patricia Evans
General Motors North America
February 26, 2001

[Home](#) [Date](#) [Projects](#) [Webinars](#) [Reports](#) [Meetings](#) [Contacts](#)

318 — 319 320 321 323 324 325 326 327 328 329

Quality Gates for M & P Assembly

1 2 3 4 5

[Edit] [Close gate] [Set a Health Check reminder] [Run a Health Check]

Gate number: 1
Gate name: Phase 0
Gate status: Open
Due date: 7/28/2001
Gate description: Design Phase
Health Check reminders set for: 7/22/2001

Required documents:

- Characteristics List - 1
- Control Plan - 1
- Design FMEA - 1
- Feasibility Letters - 1
- Key Stakeholder's Meeting - 1
- Lessons Learned - 1 (Not Submitted)
- Process Flow Charts - 1
- Process FMEA - 1
- Risk Assessment - 1
- Run @ Rate - 1
- Technical Reviews - 1
- Timing Charts/Open Issues - 1
- Performance Test Results - 1 (Not Submitted)

371 — Projects
373 — Project Info
374 — Quality Gates
375 — Documents
376 — Team List
377 — Sub-projects
378 — Planned Visits
379 — Tasks
380 — Meetings
381 — Bulletin Board
382 — Security

390 →

391

392

Done Stop Date 2000 AF: 2pm Powerway Inbox Mic Powerway Microsoft E Property 9:53 AM

FIG. 16

Document List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History

Address http://www.powerway.com/documents/doc_List.asp

POWERWAY
.com

318 →

- 371 → Projects
- 373 ✓ Project Info
- 374 ✓ Quant. Gates
- 375 ✓ Documents
- 376 ✓ Team List
- 377 ✓ Sub-projects
- 378 ✓ Planned Visits
- 379 ✓ Tasks
- 380 ✓ Meetings
- 381 ✓ Bulletin Board

Kyle Jones
Powerway - R&D
December 20, 2000

319 320 321 322 323 324 325

Document List

396 397 398 399 400

All | Required | Optional | Supporting

[Submit new document]

Class	Status	Title	Revision Number	Su
Technical-Design	Completed	tod	0	Rel
Specification - 2				

318* 316

Search Projects

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com and its affiliates in the US and other jurisdictions.

FIG. 17

0000069D.pdf

Acrobat Reader - [0000069D.pdf]

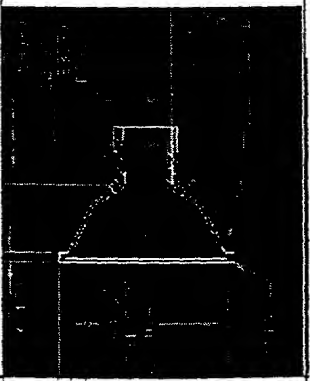
File Edit Document View Window Help

59% 1 of 3 11 x 8.5 in

Process Instruction

Steps

Revision



59% 1 of 3 11 x 8.5 in

History Size Print Yahoo! Mes...

314 316 312

Project: SCS Powerway.com

d) [Submit revision]
ass : Technical Design Specification - 2
Title: tod
tion: tod
atus: Completed
lber: 0
tion: Initial Pevision
thor: cp
ame: asofnow.txt
d by: Rebecca Ruselink
late: 12/15/2000
sion: Engineering Change(s)
ults: Dimensional Measurements
ight: 2.0000
tion: A

Requested Submission Level: Level 2
Do results meet drawing and specification requirements: Yes

© 2000 Powerway, Inc. All rights reserved. Powerway and Ppwerway.com are trademarks of Powerway, Inc.

FIG. 18

402

395

POWERWAY
 .com

 Kyle Jones
 Powerway - R&D
 December 20, 2000

Search Projects

Home Projects Profiles Methodologies Reports News Links

319 320 321 322 323 324 325

Team List

Project: SCS Powerway.com

- 319 → Projects
- 373 — Project Info
 - 374 — Quality Gates
 - 375 — Documents
 - 376 — **Team List**
 - 377 — Sub-projects
 - 378 — Planned Visits
 - 379 — Tasks
 - 380 — Meetings
 - 381 — Bulletin Board

▲ Role	Name	Tenant	E-mail
Design Engineer	<u>Doll, Matthew</u>	Powerway - R&D	mdoll@powerway.com
Owner Project Manager	<u>Flaminio, Lori</u>	Powerway - Marketing	lflaminio@powerway.com
Owner Project Manager	<u>Ruselink, Rebecca</u>	Powerway - R&D	rruselink@powerway.com
Owner Project Manager	<u>Surya, Rave</u>	Powerway - R&D	rsurya@powerway.com
Process Engineer	<u>Westlake, Mark</u>	Powerway - R&D	mwestlake@powerway.com
Process Engineer	<u>Woolgar, Scott</u>	Powerway - R&D	swoolgar@powerway.com
Quality Engineer	<u>Iverson, Stewart</u>	Powerway - R&D	siverson@powerway.com
Service Engineer	<u>Brown, Jason</u>	Powerway - R&D	jbrown@powerway.com
Service Engineer	<u>Jones, Kyle</u>	Powerway - R&D	kjones@powerway.com
Service Engineer	<u>Kennedy, Fred</u>	Powerway - R&D	fkennedy@powerway.com
Service Engineer	<u>Mangis, Ken</u>	Powerway - R&D	kmangis@powerway.com
Service Engineer	<u>Maravilla, John</u>	Powerway - R&D	jmaravilla@powerway.com
Service Engineer	<u>McIlvaine, Cindy</u>	Powerway - R&D	cmcivaine@powerway.com
Service Engineer	<u>Ruselink, Rebecca</u>	Powerway - R&D	rruselink@powerway.com
Service Engineer	<u>Steffas, Tom</u>	Powerway - R&D	tsteffas@powerway.com

FIG. 19

Size Print Yahoo! Mes Go

go 312

1 2 2 2
326 322 328 329

	Phone number
way.com	(317) 566 - 0000
erway.com	(317) 598 - 1760
erway.com	(317) 566 - 5400
rway.com	(317) 566 - 5400
owerwayinc.com	(317) 566 - 0000
erwayinc.com	(317) 566 - 0000
erwayinc.com	(317) 566 - 0000
rwayinc.com	(317) 566 - 0000
rway.com	(317) 566 - 5485
erwayinc.com	(317) 566 - 5480
erwayinc.com	(317) 566 - 5479
owerwayinc.com	(317) 566 - 5488
owerwayinc.com	(317) 566 - 0000
erway.com	(317) 566 - 5400
erway.com	(317) 566 - 0000

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History

Address http://www.powerway.com/visits/vis_Information.asp

POWERWAY
.com

Lori Flaminio
Powerway - Marketing
December 20, 2000

Projects

318 →

319 320 321

323 324 325

Visit Information

- 371 → Projects
- 373 ~ Project Info
- 374 ~ Quality Gates
- 375 ~ Documents
- 376 ~ Team List
- 377 ~ Sub-projects
- 378 ~ Planned Visits
- 412 ~ **Visit Info**
- 413 ~ Date History
- 377 ~ Tasks
- 380 ~ Meetings
- 381 ~ Bulletin Board
- 382 ~ Security

[Edit] [Complete visit] [Add attendees] [Add guest attendees] [

Target date for visit: 1/22/2001 [hist](#)

Target visit type: Onsite

Location: Powerway R&D
Session)

Attendees: [John Maravilla](#)
[Kyle Jones](#)
[Lori Flaminio](#)
[Mark Westlake](#)
[Matthew Doll](#)
[Tracie Bennett](#)

Date of pre-visit documentation review: 12/29/2000

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com
and its affiliates in the US and other jurisdictions.

FIG. 21

326 327 328 329

Size Print Yahoo! Mes

Go

go

Feedback Print Log off

326 327 328 329

Remove attendees

ICV

- Woodfield Board Room (JAD)

are trademarks of Powerway, Inc.

Programs

Meeting List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back

Forward

Stop

Refresh

Home

Search

Favorites

History

Size

Print

Yahoo! Mes...

Address http://www.powerway.com/collaboration/meet/MeetingList.asp

POWERWAY
.com

Lori Flaminio
Powerway - Marketing
December 20, 2000

318 →

319 320 321 322 323 324 325

321 → Projects

373 Project Info

374 Quality Gates

375 Documents

376 Team List

377 Sub-projects

378 Planned Visits

379 Tasks

380 Meetings

381 Bulletin Board

382 Security

Meeting List

[Create new meeting]

Meeting name	Meeting date	Start time	Project Title	Status
Quality Gates JAD Session	12/21/2000	9:00 AM	SCS	Posted

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com are trademarks of Powerway, Inc. and its affiliates in the US and other jurisdictions.

415

FIG. 22

POWERWAY
.com

Lori Flaminio
Powerway - Marketing
December 20, 2000

314 316
Projects

318 →

319 320 321 323 324 325

- 371 → Projects
- 373 ✓ Project Info
- 374 ✓ Quality Gates
- 375 ✓ Documents
- 376 ✓ Team List
- 377 ✓ Sub-projects
- 378 ✓ Planned Visits
- 379 ✓ Tasks
- 379 ✓ Meetings
- 380 ✓ **Meeting Info**
- 381 ✓ Bulletin Board
- 381 ✓ Security
- 382 ✓

Meeting Information

418 Meeting name: Quality Gates IAD Session

[Start meeting] [Delete meeting] [Manage attachments]

You are the meeting creator. You have not started this r

Project: SCS Powerway
Meeting date: 12/21/2000
Start time: 8:00 AM
End time: 10:00 AM
Description: Design session
Methodologies.
Meeting phone number: (317)566-0000
Meeting creator: Lori Flaminio
Secretary: Kyle Jones
Participants: Jason Brown
Ken Mangis
Matthew Doll
Observers: Rave Surya
Documents: none

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway, Inc. and its affiliates in the US and other jurisdictions.

FIG-23

go Advanced Search

Help Feedback Press Log off

1 2 1 1
326 327 328 329

Project: SCS Powerway.com

meeting yet.

.com

for V1.4 of Quality Gates and

- Accepted
- Invited
- Invited
- Invited
- Invited
- Invited

com are trademarks of Powerway.



Bulletin Board Message List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Size Print Yahoo! Mes...

Address http://www.powerway.com/collaboration/bbs/BulletinBoard/MessageList.asp

POWERWAY
.com

Lori Flaminio
Powerway - Marketing
December 20, 2000

Home Projects

318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

Bulletin Board Message List

Message number	Subject	Author	Date of post
1	Welcome	Lori Flaminio	12/20/2000 9:59:42 AM
2	How far along are the KPI use cases?	Lori Flaminio	12/20/2000 10:02:21 AM

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com are trademarks of Powerway, Inc. and its affiliates in the US and other jurisdictions.

Project Security Information - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History

Address http://www.powerway.com/security/Secprojinfo.asp

318 → **POWERWAY** .com

Lon Flaminio
Powerway - Marketing
December 20, 2000

314 316

319 320 321 323 324 325

371 → Projects

373 → Project Info

374 → Quality Gates

375 → Documents

376 → Team List

377 → Sub-projects

378 → Planned Visits

379 → Tasks

380 → Meetings

381 → Bulletin Board

382 → Security

422

430

Project Security Information

Project Manager

(Change settings)

Project Area	Create	Read
Project Header	n/a	yes
Team List	yes	yes
Supply Chain	n/a	yes
Quality Gate	n/a	yes
Planned Visit	yes	yes
Report	n/a	yes
Meeting	yes	yes
Bulletin Board	yes	yes
Messaging	yes	yes
Security	n/a	yes

435

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com are the US and other jurisdictions.

FIG. 25

go Advanced Search

Help Feedback Press Log off

326 327 328 329

Project: SCS Powerway.com

Update	Delete
yes	yes
yes	yes
n/a	n/a
yes	n/a
yes	yes
n/a	n/a
yes	yes
yes	yes
yes	yes
yes	n/a

trademarks of Powerway, Inc. and its affiliates in



File Edit View Favorites Tools Help

Back

Forward

Stop

Refresh

Home

Search

Favorites

History

Address http://www.powerway.com/security/SecDocInfo.asp

POWERWAY
.comLori Flaminio
Powerway - Marketing
December 20, 2000

Projects

- 318 →
- 319 320 321 322 323 324 325
- 371 → Projects
- 373 ✓ Project Info
- 374 ✓ Quality Gates
- 375 ✓ Documents
- 376 ✓ Team List
- 377 ✓ Sub-projects
- 378 ✓ Planned Visits
- 379 ✓ Tasks
- 380 ✓ Meetings
- 381 ✓ Bulletin Board
- 382 ✓ Security
- 427 ✓ Project Access
- 430 ✓ Document Access

Document Security Information

Project Manager

[Change settings]

	Submit New	View	Edit Info	Remove Current Version	Download	Si
Supporting Document	yes	yes	yes	yes	yes	
Performance Test Results Report	yes	yes	yes	yes	yes	
Specification Control Plan	yes	yes	yes	yes	yes	
Nonconformance Report	yes	yes	yes	yes	yes	
Design FMEA	yes	yes	yes	yes	yes	
SQA Test Scripts	yes	yes	yes	yes	yes	
Material Test Results	yes	yes	yes	yes	yes	
Appearance Approval Report	yes	yes	yes	yes	yes	
Dimensional Results	yes	yes	yes	yes	yes	
Feature List	yes	yes	yes	yes	yes	
Characteristics List	yes	yes	yes	yes	yes	
Marketing Requirements	yes	yes	yes	yes	yes	
Process FMEA	yes	yes	yes	yes	yes	
8D - Problem Report	yes	yes	yes	yes	yes	
Capability Studies	yes	yes	yes	yes	yes	
Use Case Specification	yes	yes	yes	yes	yes	
Parts Submission	yes	yes	yes	yes	yes	

FIG. 26

Address http://www.powerway.com/tenants/ten_TenantList.asp

POWERWAY
.com

Kyle Jones
Powerway - R&D
December 20, 2000

318

319 320 321 322 323 324 325 326 327 328 329
Tenant List 442 443 444

[Create new tenant] [Create new tenant administrator] [Create new user]

Name
Powerway - R&D

City
Indianapolis

State/province
Indiana

Status
Active

Effective date
12/7/2000

Page 1 of 1

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com are trademarks of Powerway, Inc. and its affiliates in the US and other jurisdictions.

440

FIG. 27

Tenant Information - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Size Print Yahoo! Mes.

Address http://www.powerway.com/tenants/ten_TenantInfo.asp

POWERWAY
.com

Kyle Jones
Powerway - R&D
December 20, 2000

Search Projects

316

GO

312

318

319 320 321 322 323 324 325

450

Tenant Info
Approved List
Tenant Family
Tenant Users
Tenant Admins
Project Roles
Menu Lists

Tenant Information

Tenant Name: Powerway - R&D

[Edit tenant]

Tenant Information

Tenant status: Active
Tenant parent: Powerway
Tenant family prefix: PWY

Tenant name: Powerway - R&D

Address line 1: 8440 Woodfield Crossing Blvd.

Address line 2: -

Address line 3: -

City: Indianapolis

State/Province: Indiana

Country: USA

Zip/Postal code: 46260

Phone number: (317) 566 - 5400

Fax number: (317) 566 - 5544

Email address: -

Mailing Information

FIG. 28



Journal of Management Education

1000

10

22

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26



Kyle Jones
Powerway - R&D
December 20, 2000

Search Projects

318 →

Home Power Profiles Profile Configuration Reports

319 320 321 322 323 324 325

Tenant Users List

Tenant Name: Powerway - R&D

[Create new user] [Add user]

User	Email
Andrews, Scott	sandrews@powerwayinc.com
Brown, Jason	jbrown@powerwayinc.com
Carolyn, Troy	tcarolan@powerwayinc.com
Doll, Matthew	mdoll@powerway.com
Forrester, Joseph	jforrester@powerwayinc.com
Griewe, Brian	bgriewe@powerwayinc.com
Herendeen, Molly	mherendeen@powerwayinc.com
Iverson, Stewart	siverson@powerwayinc.com
Jarosz, Carl	ctjarosz@powerwayinc.com
Jones, Kyle B	kjones@powerway.com

Page 1 of 3 Next >

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway, Inc. and its affiliates in the US and other jurisdictions.

FIG. 29

Programs



Size

Print

Yahoo! Mes

Go

go

Advanced Search

312

? ? ? ?
326 327 328 329

~470

User Name

Status

WY.sandrews	Active
WY.jbrown	Active
WY.tcarolan	Active
WY.mattdoll	Active
WY.jforrester	Active
WY.bgriewe	Active
WY.mherendeen	Active
WY.siverson	Active
WY.cjarosz	Active
WY.kjones	Active

Jump to page

1

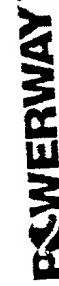
Go

com are trademarks of Powerway.

Project Roles - Microsoft Internet Explorer

File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Size Print Yahoo! Mes...

Address http://www.powerway.com/tenants/ten_ProjectRoles.asp



.com

Kyle Jones
Powerway - R&D
December 20, 2000

318 319 320 321 322 323 324 325 326 327 328 329

Tenants

- Tenant Info
- Approved List
- Tenant Family
- Tenant Users
- Tenant Admins

Project Roles

Menu Lists

Project Roles

Tenant name: Powerway - R&D

[Edit custom project role names]

Standard Project Role Names

- Buyer
- Customer Guest
- Design Engineer
- Design Shop
- Lockout
- Manager1
- Manager2
- Manager3
- Owner Project Manager
- Process Engineer
- Project Manager
- Quality Auditor
- Quality Engineer
- Quality Specialist
- Service Engineer
- Supplier Guest
- Tooling Specialist

Custom Project Role Names

- Software Designer
- Software Developer
- R&D Director
- Program Manager
- User Interface
- Software Quality Assurance
- Functional Design
- User Documentation

Methodology List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Print Size Yahoo! Mes...

Address http://www.powerway.com/quality/gates/mth_methodologyList.asp

POWERWAY

.com

Lori Flaminio
Powerway - Marketing
December 20, 2000

Projects

316

314

312

Methodology List

318 320 321 323 324 325

326 327 328 329

All | Active | Inactive | Pending

[Create new methodology]

▲ Methodology name
Powerway Standard

Effective date 12/7/2000
Review date 12/8/2000
Expiration date 12/7/2002

Risk type Medium
status Active

Revision number 1

490

FI 6.31

Methodology Info - Microsoft Internet Explorer

File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Size Print Yahoo! Mes...

Address http://www.powerway.com/qualityGates/mth_MethodologyInfo.asp

Lori Flaminio
Powerway - Marketing
December 20, 2000

POWERWAY
.com

Methodologies
Quality Gates
Past Previsions

Methodology Info

Quality Gates
Past Previsions

Methodologies
Reports
Message Center

Methodology Information

Methodology Powerway Standard
[Create a revision] [Deactivate]

Methodology description : Powerway Standard methodology

Revision number: 1

Status: Active

Product types: Interior

Risk type: Medium

Effective date: 12/7/2000

Review date: 12/8/2000

Expiration date: 12/7/2002

Total number of quality gates: 5

Author: Lori Flaminio

Search Projects 312 316 318 320 321 322 323 324 325 326 327 328 329

Methodology Powerway Standard

Methodology Information

Methodology Powerway Standard

[Create a revision] [Deactivate]

Methodology description : Powerway Standard methodology

Revision number: 1

Status: Active

Product types: Interior

Risk type: Medium

Effective date: 12/7/2000

Review date: 12/8/2000

Expiration date: 12/7/2002

Total number of quality gates: 5

Author: Lori Flaminio

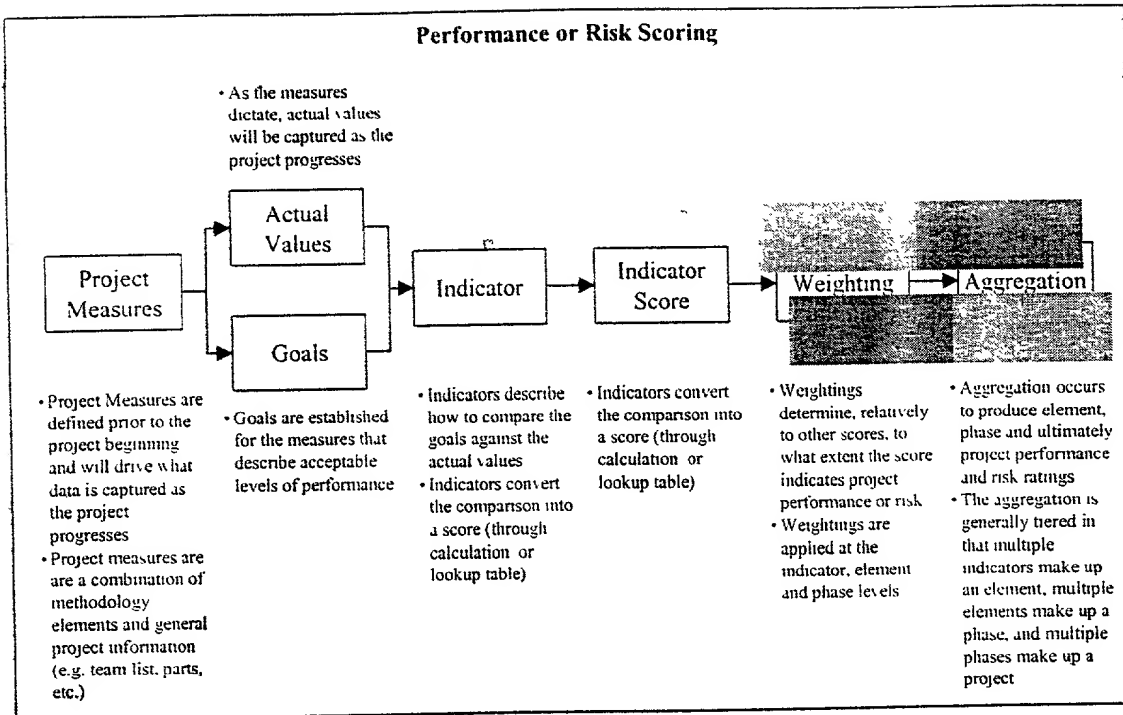


FIG. 34

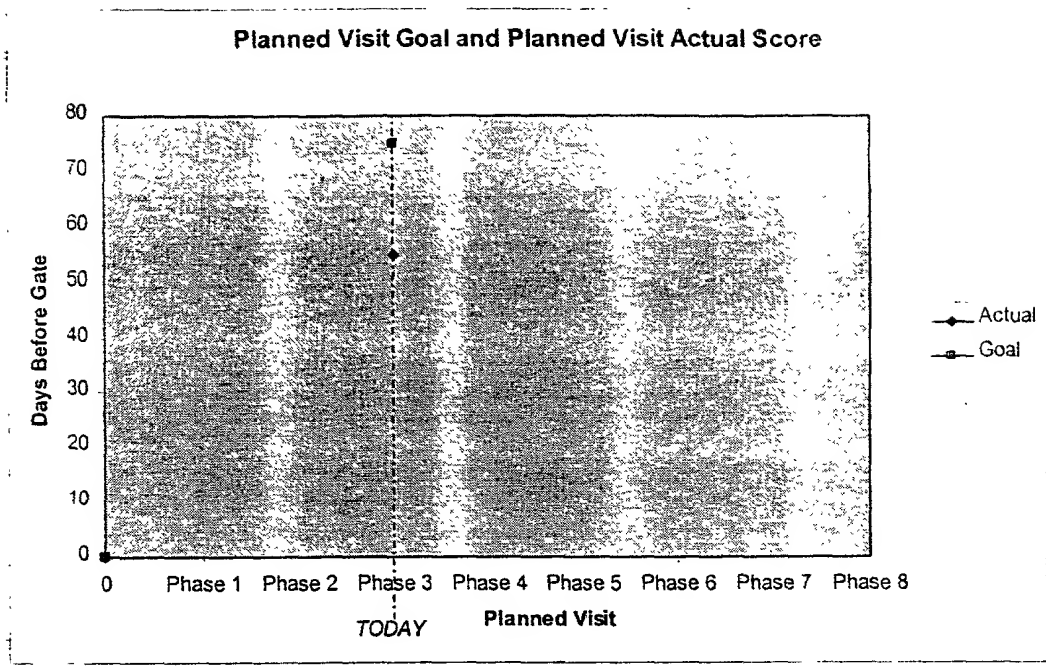


FIG. 35

Planned Visit Goal and Planned Estimated Score for PV6, PV7, and PV8

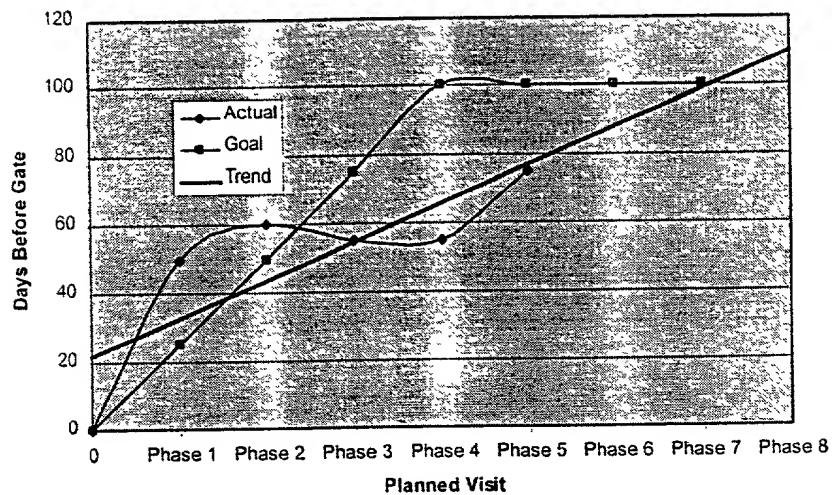


FIG. 36

Microsoft Internet Explorer

Health Check/Quality Gate Scorecard - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Size Print Yahoo! Messenger

Address http://www.powerway.com/searchReports/healthcheckreport.asp

POWERWAY
.com
Lori Flaminio
Powerway - Marketing
December 20, 2000

Search Projects

go

Advanced Search

Home Projects Reports Message Center

719 320 321 323 324 325 326 327 328 329

Health Check/Quality Gate Scorecard

[Back to Reports]

Today's date: 12/20/2000
Current User: Lori Flaminio
Selected Project: SCS Powerway.com
Total Project Score: E

Quality Gate	Score
Quality Gate: Requirements Gathering	E
Feature List	Not Submitted
Marketing Requirements	Not Submitted
Quality Gate: Design	E
Process Flow Charts	Not Submitted
Technical Design Specification	Completed
Use Case Specification	Not Submitted
User Interface Specification	Not Submitted
Quality Gate: Development	E
Code Development	Not Submitted
Preliminary Data Dictionary	Not Submitted

Report Specification
Quality Gate: Testing
SQA Test Scripts

Not Submitted

E

Not Submitted

FIG. 37

Anonymous Grade Report

[Download report in PDF format](#) [\[Back to Reports\]](#)

Today's date: 09/26/00

Current User: Dave McCauley

Project/Supply Chain: ABS brake system TT5857

Overall Grade: D

Tier 1 Grade(s): C,B,B,A,A,A

Tier 2 Grade(s): E,E,C,C,C,B,B,B,A,A,A,A

Address <http://brown-00/demoreports/SupplierGradeReport.asp>

Search

Pat Evans
General Motors
February 13, 2001

POWERWAY
.com

Select Location

GO

Supplier Grade Report

[Download report in PDF format] [Back to Reports]

Today's date: 09/26/00

Current User: Dave McCauley

Supplier: Bosch

Overall Grade: A

Project Grade(s): C,B,B,A,A,A,A,A,A,A,A

Customer Grade Report - Microsoft Internet Explorer

Address

Search

Pat Evans
General Motors
February 13, 2001

POWERWAY

Customer Grade Report

[Download report in PDF format] [Back to Reports]

Today's date: 09/26/00

Current User: Dave McCauley

Customer: Bosch

Grade: A

Done Start

Inbox - Micros... Project Securi... Customer Gr... Microsoft Pow...

Local intranet 7:48 AM

FIG. 41

POWERWAY

Task List - Microsoft Internet Explorer

File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Print Yahoo! Mes
Address http://www.powerway.com/collaboration/Task_List.asp

POWERWAY
.com
Lori Flaminio
Powerway - Marketing
December 20, 2000

Home Projects Methodologies Reports Message Center
319 320 321 322 323 324 325 326 327 328 329

Task List
Notifications
Meetings
Bulletin Boards

Open | Completed
[Create new task]
There are currently no open tasks.

© 2000 Powerway, Inc. All rights reserved. Powerway and Powerway.com are trademarks of Powerway, Inc. and its affiliates in the US and other jurisdictions.

FIG. 42